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## Patent Abstracts of Japan

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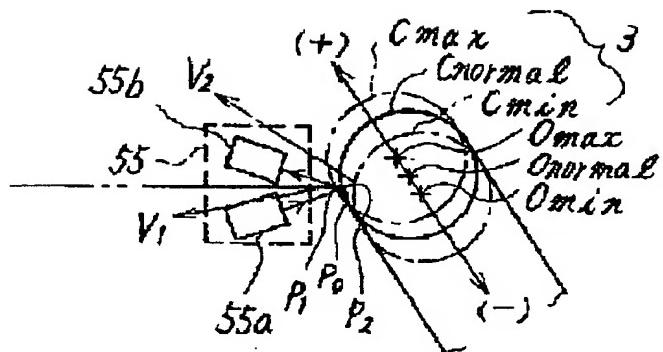
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TITLE : IMAGE FORMING DEVICE



**ABSTRACT :** PROBLEM TO BE SOLVED: To attain a formed image of high quality by providing an optical sensor immediately in front of or behind a place where a photoreceptor belt is wound on a supporting roller energized with a spring and executing an excellent detection with the sensor and further, control corresponding to the output of the sensor.

SOLUTION: A focal position P<sub>1</sub> on the photoreceptor belt by the optical sensor 55 is set in a position nearer to one belt supporting roller than a position where a tension roller shaft center O<sub>min</sub> when a tension roller 3 is displaced most to the side of one belt supporting roller by the vibration of the spring is projected on the photoreceptor belt by a parallel projection line perpendicular to a vibrating direction. Thus, even if the tension roller 3 is displaced by the vibration of the spring, in the focal position, the distance between the optical sensor and the photoreceptor belt is never fluctuated and an angle of reflection is never wandering, in a state where the surface of the photoreceptor belt is roughly parallel with the vibrating direction of the spring.

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